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DrinkerBiddle&Reath

FACSIMILE INFORMATION SHEET

TO: Ms. Wanda Banks - USPTO	FROM: Lori Aichele	EX1.: 3383
DATE: 9/12/02 DOCUMENT NAME:	6056-279 (35926-147277))
NUMBER OF PAGES: (INCLUDING COVER):17		
TELEPHONE NUMBER:	FAX NUMBER:	(703) 305–2919
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MESSAGE:		
Pursuant to our telephone conversation expense filed May 30, 2002.	arlier today, attached	is a copy of the
Original will not follow Original will follow via: Regular Mail Over	mignz Delivery 🛭 Hand Delivery	Other

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PATENT

Attorney Docket No.:

6056-279

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Patent application of

Clara Fronticelli

Group Art Unit:

Examiner:

Serial No.:

I.A. Date:

09/787,216

I.A. No.:

PCT/US99/22756

Filed:

September 30, 1999

For:

Polymeric Hemoglobins Mutants

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE KET

Commissioner for Patents
Box PCT

Washington, D.C. 20231

Sir:

MAY 3 1 2002

DRINKER, BIDDLE & REATH, LL

This is in response to the Notification of Defective Response mailed May 20, 2002 (copy enclosed), regarding the response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures dated May 8, 2001.

CERTIFICATE OF MAJLING UNDER 37 C.F.R. 1.10

ET 324713790 US

EXPRESS MAIL Mailing Label Number: ET324713790Ub

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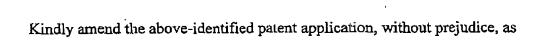
I hereby certify that this correspondence, along with any paper referred to as being attached or enclosed, and/or fcc, is being deposited with the United States Postal Service, "EXPRESS MAIL-POST OFFICE TO ADDRESSEE" service under 37 CFR 110, on the date indicated above, and addressed to: Commissioner for Patents, Washington, D.C. 2023y.

Signature of person mailing page:

Sally Hoffman

Type or print name of person

follows:



Remarks

A substitute paper copy of the Sequence Listing is enclosed herewith. The Sequence Listing substitute paper is identical to the paper copy of the Sequence Listing filed with the response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, filed June 7, 2001. The data, originally presented in international application PCT/US99/22756 using PatentIn version 2.0, is now presented herewith using a different program, namely, FastSeq for Windows version 4.0. A substitute computer readable form (CFR) copy of the Sequence Listing is also submitted herewith.

No matter is added. A Statement pursuant to 37 CFR § 1.825 is submitted herewith.

No fee is believed to be required. However if a fee is due, kindly charge deposit account number 50-0573.

Respectfully submitted,

CLARA FRONTICELLI

Attorney for the Applicant

BY

DANIEL A. MONACO Reg. No. 30,480 DRINKER, BIDDLE & REATH, LLP. One Logan Square 18th and Cherry Streets Philadelphia, PA 19103-6996 (215) 988-3312 (215) 988-2757 – fax



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT Urstad States Patent and Tradement Office Washington, U.G. 2023

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO.

09/787,216 Clara Fronticelli 6056-279

INTERNATIONAL APPLICATION NO.

PCT/US99/22756

LA FILING DATE PRIORITY DATE
09/30/1999 10/01/1998

23973 DRINKER BIDDLE & REATH ONE LOGAN SQUARE 18TH AND CHERRY STREETS PHILADELPHIA, PA 19103-6996

Date Mailed: 05/20/2002

NOTIFICATION OF DEFECTIVE RESPONSE

Trie following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- . Indication of Small Entity Status
- Priority Document
- · Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration
- Preliminary Amendments
- Request for Immediate Examination .
- Small Entity Statement

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GROWER, SIDDLE & REATH, LLP DRINKER, BIDDLE & REATH, LLP

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

The following items MUST be furnished within the period set forth below:

• The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

Page 2 of 2



- The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- Please review the attached CRF problem report.
- **APPLICANT MUST PROVIDE:**
 - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase Patentin Software, call (703) 306-2600
 - For Patentin Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov
 - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no, shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

CHARITTA A BURT

Telephone: (703) 305-3734

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.
09/787,216	PCT/US99/22756	6056-279

FORM PCT/DO/EO/916 (371 Formalities Notice)

Does Not Comply
Corrected Diskette Needed

abst.txt

POLYMERIC HEMOGLOBIN MUTANTS

Abstract of the Disclosure

Human -globin mutant polypeptides comprise the amino acid s
equence of
normal human -globin modified by (i) the substitution or deletion of
Cys at positions 93

and 112, and (ii) the substitution of a Cys for a non-Cys amino acid a
t one other position
in the polypeptide, preferably Ser at position 9. Modified human hemo
globins containing
this or other -globin mutations, and/or an à-globin mutation, are pro
vided, as well as
polymers of such modified hemoglobins. Nucleic acids, vectors and tra
nsformed host cells
for producing the -globin mutants are provided.

Ze-m

PCTOS



CRF Problem-Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/787, 216Filing Date: 3-14-01Date Processed by STIC: $3\cdot 28-01$

STIC Contact: Mark Spencer, 703-308-4212

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The CRF (was).
(circle one) Damaged or Unreadable (for Unreadable, see attached)
Blank (no files on CRF) (see attached)
Empty file (filename present, but no bytes in file) (see attached)
Virus-infected. Virus name: The STIC will not process the CRF.
Not saved in ASCII text
Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should only be the Sequence Listing.
Did not contain a Sequence Listing. (see attached sample)
Other:

PLEASE USE THE CHECKER VERSION 3.0 PROGRAM TO REDUCE ERRORS. SEE BELOW FOR DETAILS:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker